SERVICE MANUAL

CD5090R/C/G

COMPACT DISC PLAYER

CONTENTS

WIRING DIAGAM

BLOCK DIAGRAM

ELECTRICAL PARTS LIST

SCHAMATIC DIAGRAMS

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
C551	CERAMIC T.C DISC	47 pF	50V	J	1	D000470167050	
C560	CERAMIC HIK DISC	0.001 uF	50V	K	1	D004102277050	
C601	CERAMIC HIK AXIAL	0.1 uF	50V	Z	1	D005104597530	
C602-C605	CERAMIC HIK AXIAL	100 pF	50V	K	4	D005101177520	
C606	CERAMIC HIK AXIAL	0.1 uF	50V	Z	1	D005104597530	
C607	CERAMIC T.C AXIAL	10 pF	50V	J	1	D001100067520	
C608	CERAMIC HIK AXIAL	100 pF	50V	K	1	D005101177520	
C701L	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C702R	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C703L	CERAMIC HIK DISC	680 pF	50V	K	1	D004681277050	
C704R	CERAMIC HIK DISC	680 pF	50V	K	1	D004681277050	
C705L	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C706R	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C707L	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C708R	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C709L	ELECT GE 85C	10 uF	50V	M	1	D040100087070	
C710R	ELECT GE 85C	10 uF	50V	M	1	D040100087070	
C713L	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C714R	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C715L	ELECT GE 85C	22 uF	16V	M	1	D040220083070	
C716R	ELECT GE 85C	22 uF	16V	M	1	D040220083070	
C717L	CERAMIC HIK DISC	0.001 uF	50V	K	1	D004102277050	
C718R	CERAMIC HIK DISC	0.001 uF	50V	K	1	D004102277050	
C720R	FILM POLYESTER	0.0022 uF	100V	J	1	D02022206C060	
C721	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C721L	FILM POLYESTER	0.0022 uF	100V	J	1	D02022206C060	
C722R	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C723	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	
C751L	ELECT GE 85C	2.2 uF	50V	M	1	D0402R2087250	
C752R	ELECT GE 85C	2.2 uF	50V	M	1	D0402R2087250	
C753L	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C754R	CERAMIC HIK DISC	560 pF	50V	K	1	D004561277050	
C755L	CERAMIC HIK DISC	470 pF	50V	K	1	D004471277050	
C756R	CERAMIC HIK DISC	470 pF	50V	K	1	D004471277050	
C757L	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C758R	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C759	CERAMIC HIK DISC	100 pF	50V	K	1	D004101277050	
C760	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
C791	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	
C792/C793	ELECT GE 85C	1 uF	50V	M	2	D040010087080	
C851	CERAMIC T.C DISC	33 pF	50V	J	1	D000330167060	
C852	CERAMIC SEMI DISC	0.1 uF	50V	Z	1	D006104597050	
C854	CERAMIC SEMI DISC	0.1 uF	50V	Z	1	D006104597050	
	CONNECTORS						
CP105	CN.WIRE TRAP 2.0MM (12P)				1	L141521471210	
CP201	CN.FPC 1.25MM (16P)				1	L131837001600	
CP301	CN.WAFER 2.0MM (6P)				1	L101220060000	
CP302	CN.WAFER 2.0MM (5P)				1	L101220050000	
CP601	CN.FPC 1.25MM (22P)				1	L131837002200	
CP751	CN.WIRE TRAP 2.0MM (4P)				1	L141521470410	
	DIODES						
D201	1SS133T,SWITCHING				1	K000013300520	
D401/D402	1SS133T,SWITCHING				2	K000013300520	
D701/D702	1SS133T,SWITCHING				2	K000013300520	
D791	1SS133T,SWITCHING				1	K000013300520	
D851-D853	1SS133T,SWITCHING				3	K000013300520	
	INTEGRATED CIRCUITS						
IC201	CXA1821M,RF AMP				1	J030182100010	
IC302	NJM4558DD,OP				1	J121455800020	
IC401	BA5979S,DRIVER				1	J127597900020	
IC501	CXD2587Q,DSP				1	J031258700020	
IC701	NJM4558DD,OP				1	J121458000010	
IC751	NJM4558DD,OP				1	J121458000010	
	COILS						
L201	INDUCTOR COIL,10uH				1	D330100700520	
L851	INDUCTOR COIL,1.0uH				1	D3301R0001020	
	TRANSISTORS						
Q201	KTA1270Y,PNP				1	J5001270Y0050	
Q301	KTA1273Y,PNP				1	J5001273Y0050	
Q302	KTC3205Y,NPN				1	J5023205Y0020	
Q401	KTA1273Y,PNP				1	J5001273Y0050	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
Q701L	2SC2878,NPN				1	J502287800000	
Q702R	2SC2878,NPN				1	J502287800000	
Q703L	2SC2878,NPN				1	J502287800000	
Q704R	2SC2878,NPN				1	J502287800000	
Q791/Q792	DTC124ES,NPN				2	J6020124E0010	
	RESISTORS						
R200	CARBON FILM	4.7 ohm	1/5W	J	1	C0004R706P520	
R205/R206	CARBON FILM	150 kohm	1/5W	J	2	C00001546P520	
R207	CARBON FILM	10 ohm	1/5W	J	1	C00001006P520	
R208	CARBON FILM	27 kohm	1/5W	J	1	C00002736P520	
R209	CARBON FILM	15 kohm	1/5W	J	1	C00001536P520	
R215	CARBON FILM	22 kohm	1/5W	J	1	C00002236P520	
R216	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R306/R307	CARBON FILM	10 kohm	1/5W	J	2	C00001036P520	
R308	CARBON FILM	75 kohm	1/5W	J	1	C00007536P520	
R309	CARBON FILM	82 kohm	1/5W	J	1	C00008236P520	
R310/R311	CARBON FILM	75 kohm	1/5W	J	2	C00007536P520	
R312	CARBON FILM	47 ohm	1/5W	J	1	C00004706P520	
R313	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R314	CARBON FILM	6.8 kohm	1/5W	J	1	C00006826P520	
R401	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R402	CARBON FILM	2.2 ohm	1/5W	J	1	C0002R206P520	
R404	CARBON FILM	4.7 kohm	1/5W	J	1	C00004726P520	
R421	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R422	CARBON FILM	160 kohm	1/5W	J	1	C00001646P520	
R500	CARBON FILM	150 ohm	1/5W	J	1	C00001516P520	
R501	CARBON FILM	15 kohm	1/5W	J	1	C00001536P520	
R502	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R503	CARBON FILM	15 kohm	1/5W	J	1	C00001536P520	
R505	CARBON FILM	47 ohm	1/5W	J	1	C00004706P520	
R518	CARBON FILM	390 ohm	1/5W	J	1	C00003916P520	
R519/R520	CARBON FILM	3.3 kohm	1/5W	J	2	C00003326P520	
R521	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R522	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R523	CARBON FILM	33 kohm	1/5W	J	1	C00003336P520	
R524/R525	CARBON FILM	1 Mohm	1/5W	J	2	C00001056P520	
R532	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
R551	CARBON FILM	5.6 ohm	1/5W	J	1	C0005R606P520	
R591	CARBON FILM	6.8 kohm	1/5W	J	1	C00006836P520	
R601	CARBON FILM	470 ohm	1/5W	J	1	C00004716P520	
R602	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R603	CARBON FILM	1 kohm	1/5W	J	1	C00001026P520	
R604	CARBON FILM	15 kohm	1/5W	J	1	C00001536P520	
R605	CARBON FILM	1 kohm	1/5W	J	1	C00001026P520	
R606/R607	CARBON FILM	3.3 kohm	1/5W	J	2	C00003326P520	
R700	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R701L	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R702R	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R703L	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R704R	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R705L	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R706R	CARBON FILM	12 kohm	1/5W	J	1	C00001236P520	
R707L	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R708R	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R709L	CARBON FILM	470 ohm	1/5W	J	1	C00004716P520	
R710R	CARBON FILM	470 ohm	1/5W	J	1	C00004716P520	
R711L	CARBON FILM	2.7 kohm	1/5W	J	1	C00002726P520	
R712R	CARBON FILM	2.7 kohm	1/5W	J	1	C00002726P520	
R713L	CARBON FILM	2.7 kohm	1/5W	J	1	C00002726P520	
R714R	CARBON FILM	2.7 kohm	1/5W	J	1	C00002726P520	
R715L	CARBON FILM	68 ohm	1/5W	J	1	C00006806P520	
R716R	CARBON FILM	68 ohm	1/5W	J	1	C00006806P520	
R717L	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R718R	CARBON FILM	100 kohm	1/5W	J	1	C00001046P520	
R719L	CARBON FILM	330 ohm	1/5W	J	1	C00003316P520	
R720R	CARBON FILM	330 ohm	1/5W	J	1	C00003316P520	
R721L	CARBON FILM	330 ohm	1/5W	J	1	C00003316P520	
R722R	CARBON FILM	330 ohm	1/5W	J	1	C00003316P520	
R723L	CARBON FILM	100 ohm	1/5W	J	1	C00001016P520	
R724R	CARBON FILM	100 ohm	1/5W	J	1	C00001016P520	
R751L	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R752R	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R753L	CARBON FILM	2.4 kohm	1/5W	J	1	C00002426P520	
R754R	CARBON FILM	2.4 kohm	1/5W	J	1	C00002426P520	
R755L	CARBON FILM	47 ohm	1/5W	J	1	C00004706P520	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
R756R	CARBON FILM	47 ohm	1/5W	J	1	C00004706P520	
R757L	CARBON FILM	56 ohm	1/5W	J	1	C00005606P520	
R758R	CARBON FILM	56 ohm	1/5W	J	1	C00005606P520	
R791	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R792	CARBON FILM	33 kohm	1/5W	J	1	C00003336P520	
R793	CARBON FILM	2.2 kohm	1/5W	J	1	C00002226P520	
R851	CARBON FILM	22 kohm	1/5W	J	1	C00002236P520	
R852	CARBON FILM	220 kohm	1/5W	J	1	C00002246P520	
	ZENER DIODES						
ZD301	MTZJ4.3B,ZENER				1	K06004R344520	
ZD791	MTZJ8.2B,ZENER				1	K06008R244520	
	MISCELLANEOUS						
BD501	COIL,BFS2550A0F1(52MM)				1	D320255000520	
G601	TERMINAL GND				1	3790040876010	
G701	TERMINAL GND				1	3790040876010	
J201-J214	CN,WIRE 1P				14	L045084006040	
J216-J252	CN,WIRE 1P				37	L045084006040	
JK701	TER,RCA 2PIN				1	G601020130020	
JK851	TER,RCA (DIGI-LINK)				1	G608040190010	
JK852	OPTICAL MODULE,GP1F32T				1	E100132000010	
X501	CRYSTAL,16.9344MHz				1	E80016R934440	
PCB1-1	**ASSEMBLY P.C.BOARD FRONT**						
	CAPACITORS						
C800	CERAMIC HIK AXIAL	0.1 uF	50V	Z	1	D005104597530	
C801	CERAMIC HIK AXIAL	470 pF	50V	K	1	D005471277520	
C802	ELECT GE 85C	100 uF	10V	M	1	D040101082050	
C803	ELECT GE 85C	1 uF	50V	M	1	D040010087070	
C804	CERAMIC HIK AXIAL	0.01 uF	16V	M	1	D005103773530	
C805	ELECT GE 85C	47 uF	16V	M	1	D040470083070	
C807-C813	CERAMIC HIK AXIAL	100 pF	50V	K	7	D005101177520	
C814	CERAMIC HIK AXIAL	0.047 uF	50V	Z	1	D005473597520	
	CONNECTOR						
CP801	CN.FPC 1.25MM (22P)				1	L131837002210	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
	DIODES						
D801-D803	1SS133T,SWITCHING				3	K000013300520	
	INTEGRATED CIRCUITS						
IC801	CXP82320-519Q,CPU				1	J020823205190	
IC802	KIA7042P,RESET				1	J125704200010	
	RESISTORS						
R802/R803	CARBON FILM	10 kohm	1/5W	J	2	C00001036P520	
R804	CARBON FILM	22 ohm	1/5W	J	1	C00002206P520	
R805-R811	CARBON FILM	10 kohm	1/5W	J	7	C00001036P520	
R812-R818	CARBON FILM	1 kohm	1/5W	J	7	C00001026P520	
	MISCELLANEOUS						
FL801	DISPLAY,SVA-07SM04				1	K530070400010	
G802	RING,TER WIRE 130MM				1	8410131240010	
J801-J806	CN,WIRE 1P				6	L045084006040	
J808-J813	CN,WIRE 1P				6	L045084006040	
J815/J816	CN,WIRE 1P				2	L045084006040	
J818-J829	CN,WIRE 1P				12	L045084006040	
J831-J837	CN,WIRE 1P				7	L045084006040	
RM801	REMOCON MODULE,PIC26043H2				1	E940260430010	
S801-S821	TACT SW,SKHV10920A				21	G180000270010	
XT801	RESONATOR,CST10.0MTW				1	E830100000050	
	HOLDER FLT				1	4320020651010	
PCB1-2	**ASSEMBLY P.C.BOARD POWER**						
	CAPACITORS						
C100-C106	CERAMIC HIK DISC	0.047 uF	50V	Z	7	D004473597050	
C107	ELECT GE 85C	1000 uF	25V	M	1	D040102084030	
C108	ELECT GE 85C	2200 uF	25V	M	1	D040222084030	
C114	ELECT GE 85C	100 uF	50V	M	1	D040101087060	
C115	CERAMIC HIK DISC	0.047 uF	50V	Z	1	D004473597050	
C116	ELECT GE 85C	100 uF	50V	M	1	D040101087060	
C117/C118	CERAMIC HIK DISC	0.01 uF	50V	Z	2	D004103097060	
C119	ELECT GE 85C	1 uF	50V	M	1	D040010087080	
C120	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	
C121	ELECT GE 85C	47 uF	25V	M	1	D040470084070	
C122	ELECT GE 85C	100 uF	10V	M	1	D040101082070	

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
C123	CERAMIC HIK DISC	0.047 uF	50V	Z	1	D004473597050	
	CONNECTORS						
CP101	CN.WAFER 7.92MM (2P)				1	L108039602010	
CP102	CN.WIRE TRAP 2.0MM (8P)				1	L141521470810	
CP104	WIRE,FLAT 2877 2.0MM (12P)				1	L321141122610	
	DIODES						
D101-D104	1N4004A,RECTIFIER				4	K040400400520	
D106-D109	1SS133T,SWITCHING				4	K000013300520	
	FUSES						
F101	FUSE CLIP				1	G645000050010	K/PT
F101	FUSE,250V-S200MA				1	G650201251150	K
F101	FUSE,250V-T315MA				1	G650311251160	PT
	INTEGRATE CIRCUITS						
IC101	KIA7808P,REGULATOR				1	J126780800110	
IC102	NJM7908FA,REGULATOR				1	J126790800020	
	TRANSISTOR						
Q101	KTA1273Y,PNP				1	J5001273Y0050	
	RESISTORS						
R100	METAL FILM	1 ohm	1/4W	J	1	C060001063050	
R101	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520	
R102	CARBON FILM	2.7 kohm	1/5W	J	1	C00002726P520	
R103/R104	CARBON FILM	10 kohm	1/5W	J	2	C00001036P520	
R105/R106	CARBON FILM	100 ohm	1/5W	J	2	C00001016P520	
R107	METAL FILM	1 ohm	1/4W	J	1	C060001063050	
SL101	SLIDE SW,RAS-1201				1	G060040550010	PT
	ZENER DIODES						
ZD101	MTZJ27B,ZENER				1	K06027R044520	
ZD102	MTZJ3.9B,ZENER				1	K06003R944520	
	MISCELLANEOUS						
G101/G102	TERMINAL GND				2	3790040876010	

NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
HT101	HEAT SINK	1	2120020238030	
J1	CN,WIRE 1P	1	L045084006040	D/G/K
J101	CN,WIRE 1P	1	L045084006040	
J103	CN,WIRE 1P	1	L045084006040	
J105-J108	CN,WIRE 1P	4	L045084006040	D/G/K
J105-J118	CN,WIRE 1P	14	L045084006040	PT
J110-J118	CN,WIRE 1P	9	L045084006040	D/G/K
J2	CN,WIRE 1P	1	L045084006040	D/G
PT101	POWER TRANS, 110V/220V, 50/60Hz	1	8200480043030	
	SCREW,+3S 3*8 B-TYPE	1	B020030081B10	
PCB1-3	**ASSEMBLY P.C.BOARD C/STATION**			
CP202	CN.FPC 1.0MM (16P)	1	L130620001600	
CP203	CN.FPC 1.25MM (16P)	1	L131837001610	
J301-J307	CN,WIRE 1P	7	L045084006040	
PCB1-4	**ASSEMBLY P.C.BOARD POWER SW**			
C151/C152	ELCET BP 85C 2.2 uF 50V M	2	D0422R2087200	
CP103	WIRE,FLAT 2877 2.0MM (8P)	1	L321161082610	
SW101	PUSH SW,PN-BL097H	1	G000097000000	
PCB1-5	**ASSEMBLY P.C.BOARD HEAD-PHONE**			
BD701/BD702	COIL,BFS2550A0F1(52MM)	2	D320255000520	
CP752	WIRE,FLAT 2877 2.0MM (4P)	1	L321151042610	
G751	CN,WIRE 1P	1	L046221010580	
JK751	JACK,D6.5	1	G402038040020	

♣ MAIN PCB ASS'Y (PCB1) INCLUDES THE FOLLOWING BOARDS

① THE ASS'Y PCB FRONT (PCB1-1).

② THE ASS'Y PCB POWER (PCB1-2).

③ THE ASS'Y PCB C/STATION (PCB1-3).

④ THE ASS'Y PCB POWER SW (PCB1-4).

⑤ THE ASS'Y PCB HEAD-PHONE (PCB1-5).

☞ D/G -> EU (230V/50Hz) , K -> KOREA (220V/60Hz) , PT -> ASIA (110/220V,50/60Hz)

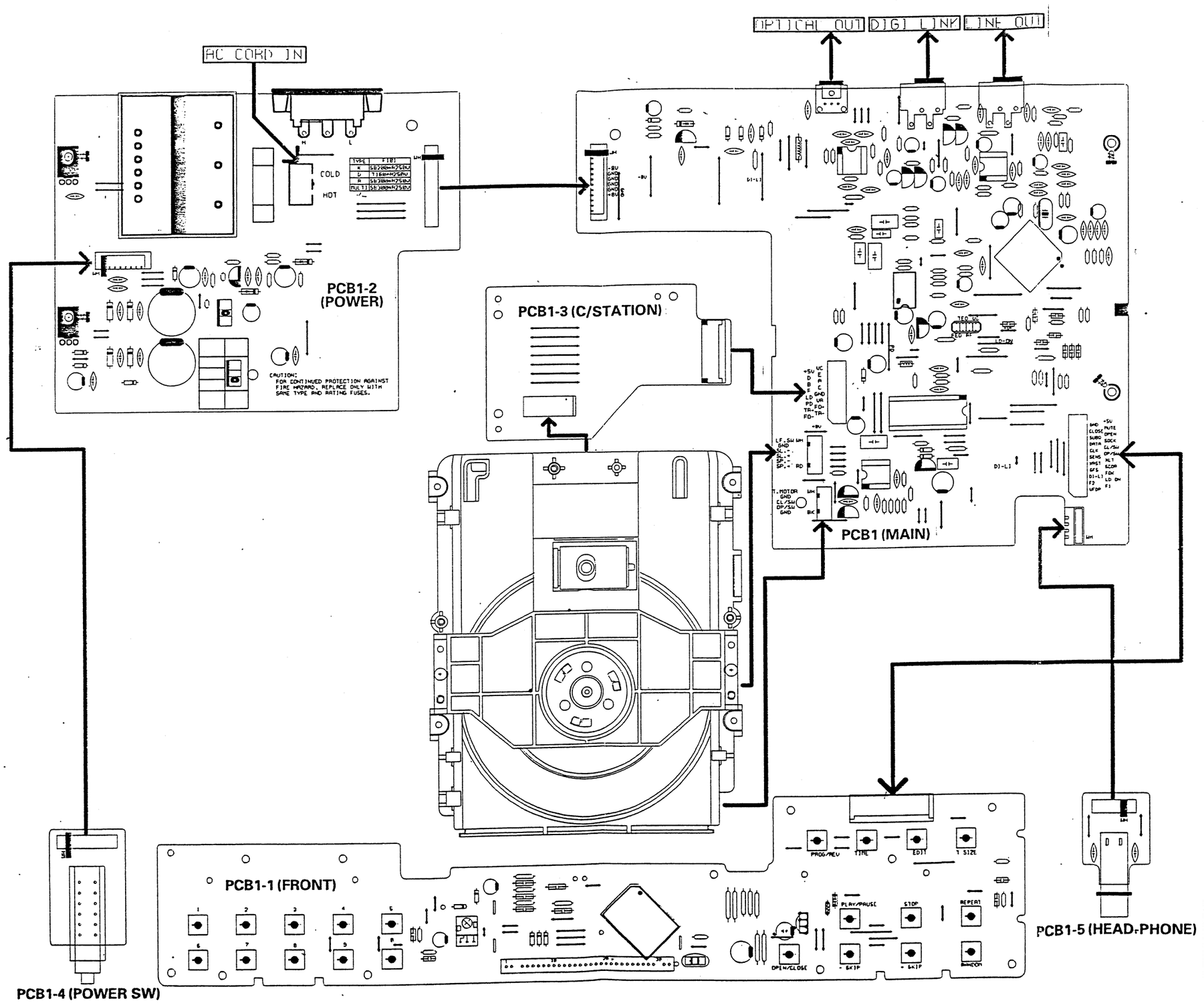
ELECTRICAL PARTS LIST

★ **Parts without Parts No are not supplied.**

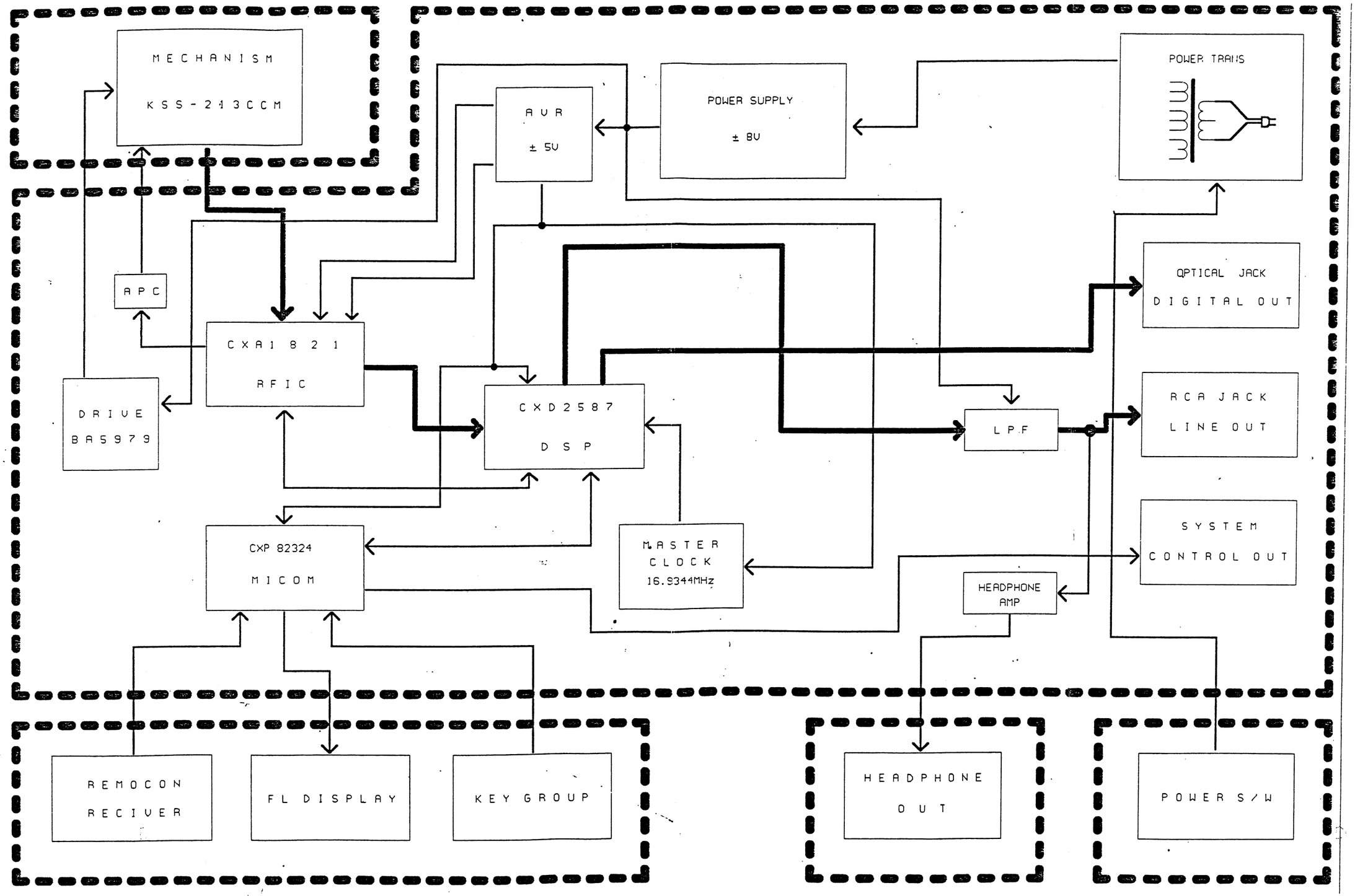
Parts without version mentioned are common ones.

NO.	DESCRIPTION				Q'TY	PARTS NO.	VER.
PCB1	**ASSEMBLY P.C.BOARD MAIN**					**7025HD9802020**	**D**
PCB1	**ASSEMBLY P.C.BOARD MAIN**					**7025HD9802090**	**G**
PCB1	**ASSEMBLY P.C.BOARD MAIN**					**7025HD9802010**	**K**
PCB1	**ASSEMBLY P.C.BOARD MAIN**					**7025HD9802030**	**PT**
	CAPACITORS						
C201	ELECT GE 85C	47 uF	25V	M	1	D040470084070	
C203	ELECT GE 85C	100 uF	10V	M	1	D040101082070	
C204	CERAMIC HIK DISC	0.001 uF	50V	K	1	D004102277050	
C205	ELECT GE 85C	100 uF	10V	M	1	D040101082070	
C207	CERAMIC T.C DISC	15 pF	50V	J	1	D000150067050	
C210	ELECT GE 85C	1 uF	50V	M	1	D040010087080	
C302	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	
C306	CERAMIC HIK DISC	0.01 uF	50V	Z	1	D004103097060	
C307	CERAMIC HIK DISC	0.001 uF	50V	K	1	D004102277050	
C308/C309	ELECT GE 85C	47 uF	25V	M	2	D040470084070	
C310	ELECT GE 85C	100 uF	10V	M	1	D040101082070	
C311	ELECT GE 85C	47 uF	25V	M	1	D040470084070	
C400	ELECT GE 85C	100 uF	10V	M	1	D040101082070	
C401	ELECT GE 85C	470 uF	6.3V	M	1	D040471081060	
C402	FILM POLYESTER	0.01 uF	100V	J	1	D02010306C060	
C421/C422	CERAMIC HIK DISC	100 pF	50V	K	2	D004101277050	
C423	FILM POLYESTER	0.033 uF	100V	J	1	D02033306C060	
C501	CERAMIC HIK DISC	470 pF	50V	K	1	D004471277050	
C502	ELECT GE 85C	3.3 uF	50V	M	1	D0403R3087050	
C503	CERAMIC HIK DISC	470 pF	50V	K	1	D004471277050	
C505	ELECT GE 85C	470 uF	6.3V	M	1	D040471081060	
C517	FILM POLYESTER	0.0015 uF	100V	J	1	D02015206C060	
C518	FILM POLYESTER	0.047 uF	100V	J	1	D02047306C060	
C519	FILM POLYESTER	0.0033 uF	100V	J	1	D02033206C060	
C520	CERAMIC HIK DISC	330 pF	50V	K	1	D004331277050	
C521	FILM POLYESTER	0.1 uF	100V	J	1	D02010406C060	
C522/C523	CERAMIC T.C DISC	27 pF	50V	J	2	D000270167050	
C525/C526	ELECT GE 85C	100 uF	10V	M	2	D040101082070	
C532	FILM POLYESTER	0.01 uF	100V	J	1	D02010306C060	

WIRING DIAGRAM



BLOCK DIAGRAM



SCHEMATIC DIAGRAM

Model No. : CD-5090R/C/G